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TI Free-cutting lead-free brass alloys

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AB The alloys have high resistance to dezincification and wear, and they contain Zn 20-45; Bi 0.2-4; Sn 0.2-3; Ni ≤4, Si ≤3, Al ≤6, Mn ≤5, and/or Sb ≤1; and/or Fe ≤3, Co ≤3, Ti ≤3, Mo ≤1, Cr ≤1, Zr ≤2, and/or Nb ≤1%. The alloys contain Zn 22-42; Bi 0.5-2; Sn 0.5-2; Ni ≤4, Si ≤4, Al ≤6, Mn ≤5, and/or Sb ≤1; and/or Fe ≤3, Co ≤3, Ti ≤3, Mo ≤2, Cr ≤2, Zr ≤2, and/or Nb ≤2%. The alloys contain ≤0.4% Pb. The alloys are useful for sliding materials such as bearings for seawater pumps.